

Abstract

The invention relates to a fuel injection system (1) for internal combustion engines, having a fuel injector (26) that can be acted upon by a high-pressure fuel source (2, 43). The fuel injection system (1) includes a pressure booster (13), which contains a movable boosting element (14) configured in pistonlike fashion that divides a work chamber (15), which can be made to communicate with the high-pressure source (2, 43) via a high-pressure line (3), from a high-pressure chamber (17) that acts on the fuel injector (26). The fuel pressure of a high-pressure chamber (17) is variable by filling a differential pressure chamber (16) of the pressure booster (13) with fuel and evacuating the differential pressure chamber (16) of fuel. A filter element (5) is received in a line portion (4) that branches off from the high-pressure line (3) and is upstream of flow connections for filling pressure chambers (16, 17) of the pressure booster (13).

(Fig. 1)